

# Inhibition of Gp120 Binding to CD4 by Chimpanzee Sera

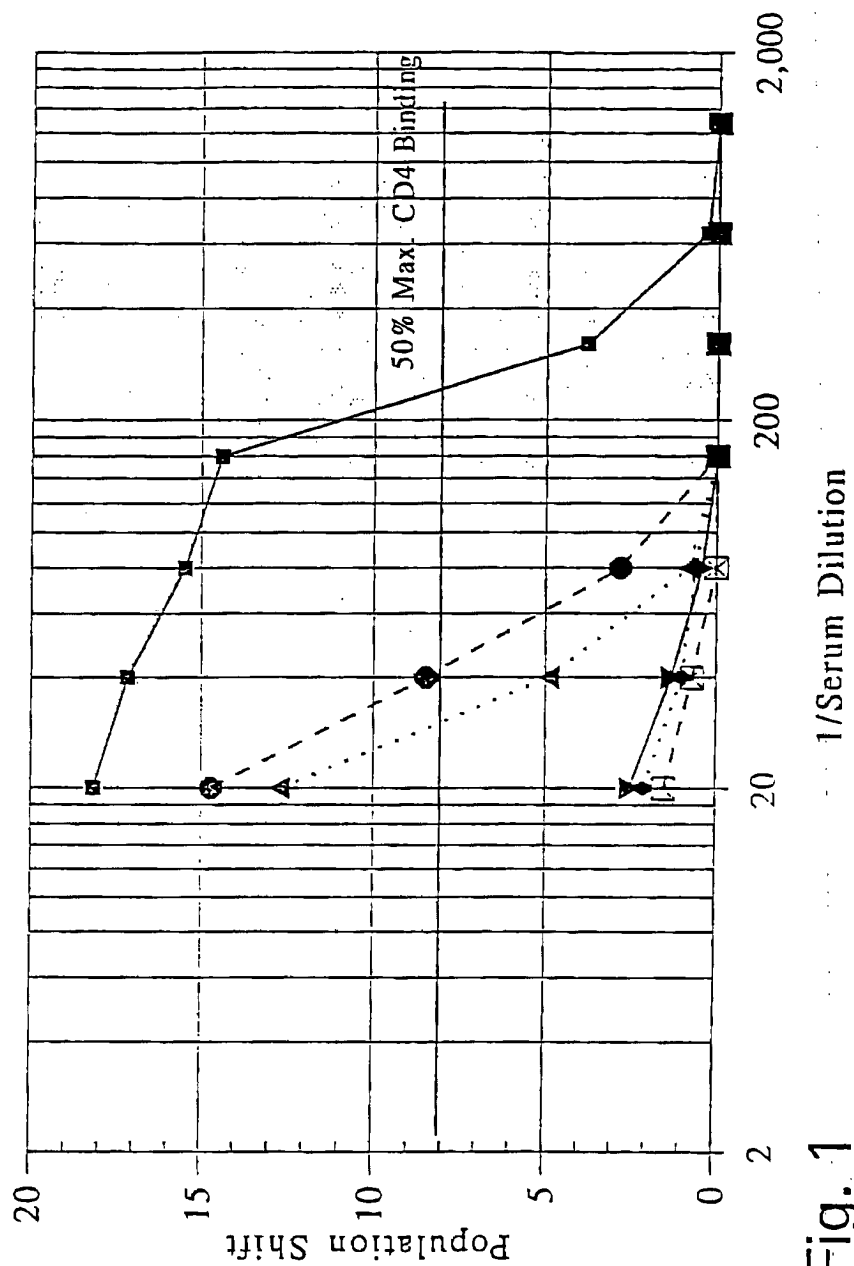


Fig. 1

Chimpanzee Number

▼ Preimmune 6 ▲ Immune 6 ◻ Preimmune 4 ◆ Immune 4 ■ Preimmune 5 ● Immune 5



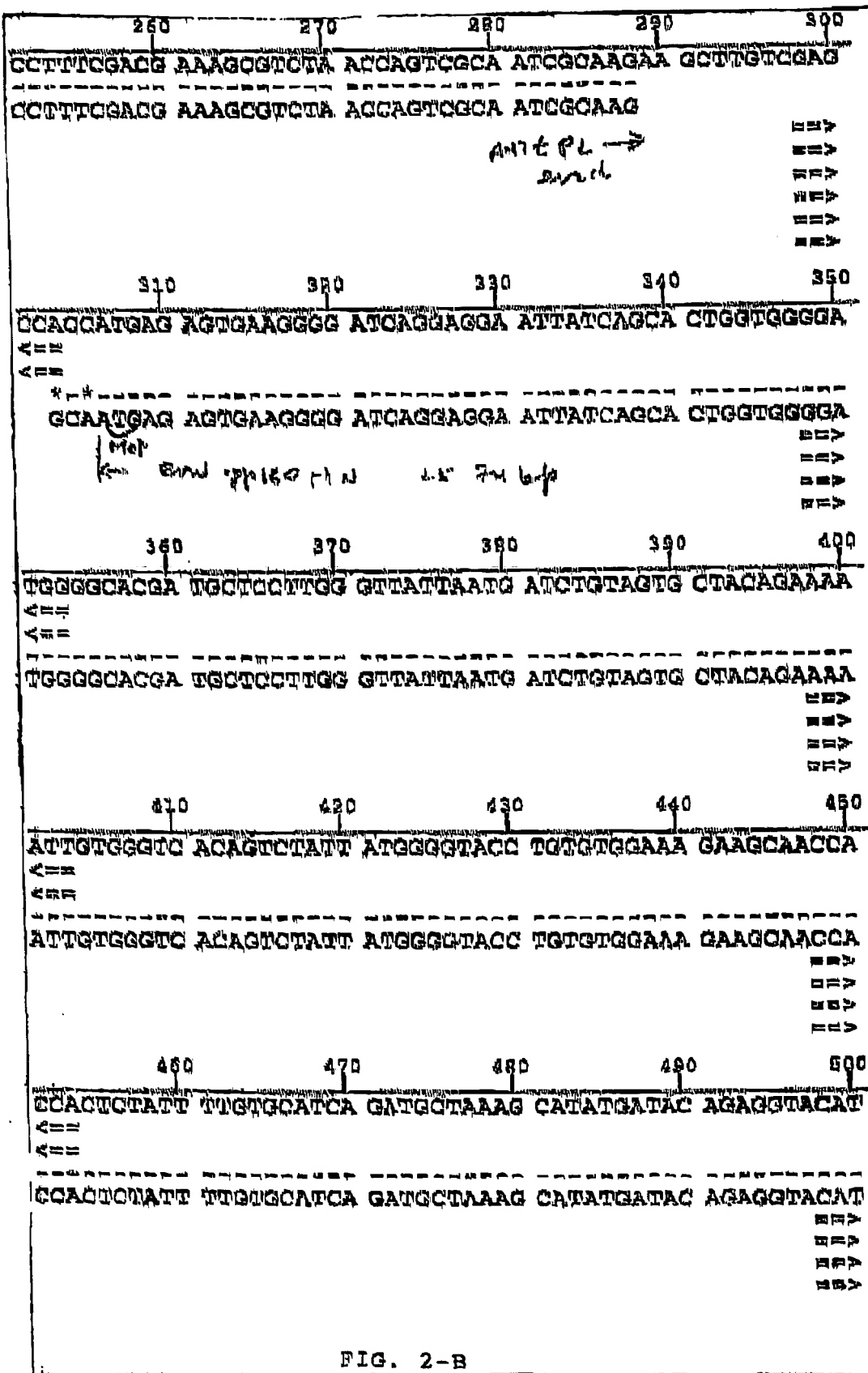


FIG. 2-B

510	520	530	540	550
AATGTTTGGG CCACACATGC CTGTGTACCC ACAGACCCCA ACCCAACAAG				
<==				
<==				
AATGTTTGGG CCACACATGC CTGTGTACCC ACAGACCCCA ACCCAACAAG				
==>				
==>				
==>				
==>				
560	570	580	590	600
AGTAGAATTG GTAAGTGTGA CAGAAAATT TAAACATGTGG AAAAATAACA				
<==				
<==				
AGTAGAATTG GTAAGTGTGA CAGAAAATT TAAACATGTGG AAAAATAACA				
==>				
==>				
==>				
==>				
610	620	630	640	650
TGCTAGAACA GATGCATGAG GATATAATCA GTTTATGGGA TCAAAGCCTA				
<==				
<==				
TGCTAGAACA GATGCATGAG GATATAATCA GTTTATGGGA TCAAAGCCTA				
==>				
==>				
==>				
==>				
660	670	680	690	700
AAGCCATGTG TAAATTAAC CCCACTCTGT GTTACTTTAA ATTGCACCTG				
<==				
<==				
AAGCCATGTG TAAATTAAC CCCACTCTGT GTTACTTTAA ATTGCACCTG				
==>				
==>				
==>				
==>				
710	720	730	740	750
TTTGAGGAAT ACTACTAATA CCAATAATAG TACTGCTAAT AACAATAGTA				
<==				
<==				
TTTGAGGAAT ACTACTAATA CCAATAATAG TACTGCTAAT AACAATAGTA				
==>				
==>				
==>				
==>				

FIS. 2-C



1010	1020	1030	1040	1050
GTGTAACGAT AAAAAGTTCA GTGGAAAAGG ATCATGTAAA AATGTCAGCA				
<==				
<==				
-----				
GTGTAACGAT AAAAAGTTCA GTGGAAAAGG ATCATGTAAA AATGTCAGCA				
				==>
				==>
				==>
				==>
1060	1070	1080	1090	1100
CAGTACAATG TACACATGGA ATTAGGCCAG TAGTATCAAC TCAACTGCTG				
<==				
<==				
-----				
CAGTACAATG TACACATGGA ATTAGGCCAG TAGTATCAAC TCAACTGCTG				
				==>
				==>
				==>
				==>
1110	1120	1130	1140	1150
TTAAATGGCA GTCTAGCAGA AGAAGAGGTA GTAATTAGAT CTGACAATTT				
<==				
<==				
-----				
TTAAATGGCA GTCTAGCAGA AGAAGAGGTA GTAATTAGAT CTGACAATTT				
				==>
				==>
				==>
				==>
1160	1170	1180	1190	1200
CAATGATAAT GCTAAAACCA TCATAGTACA TCTGAATGAA TCTGTACAAA				
<==				
<==				
-----				
CAATGATAAT GCTAAAACCA TCATAGTACA TCTGAATGAA TCTGTACAAA				
				==>
				==>
				==>
				==>
1210	1220	1230	1240	1250
TTAATTGTAC AAGACCCAAC TACAATAAAA GAAAAAGGAT ACATATAGGA				
<==				
<==				
-----				
TTAATTGTAC AAGACCCAAC TACAATAAAA GAAAAAGGAT ACATATAGGA				
				==>
				==>
				==>
				==>

FIG. 2-B

1260	1270	1280	1290	1300
CCAGGGAGAG CATTTTATAC AACAAAAAT ATAATAGGAA CTATAAGACA				
^==				
^==				
-----				
CCAGGGAGAG CATTTTATAC AACAAAAAT ATAATAGGAA CTATAAGACA				
==>				
==>				
==>				
==>				
1310	1320	1330	1340	1350
AGCACATTGT AACATTAGTA GAGCAAAATG GAATGACACT TTAAGACAGA				
^==				
^==				
-----				
AGCACATTGT AACATTAGTA GAGCAAAATG GAATGACACT TTAAGACAGA				
==>				
==>				
==>				
==>				
1360	1370	1380	1390	1400
TAGTTAGCAA ATTAAAAGAA CAATTTAAGA ATAAAACAAT AGTCTTTAAT				
^==				
^==				
-----				
TAGTTAGCAA ATTAAAAGAA CAATTTAAGA ATAAAACAAT AGTCTTTAAT				
==>				
==>				
==>				
==>				
1410	1420	1430	1440	1450
CAATCCTCAG GAGGGGACCC AGAAATTGTA ATGCACAGTT TTAATTGTGG				
^==				
^==				
-----				
CAATCCTCAG GAGGGGACCC AGAAATTGTA ATGCACAGTT TTAATTGTGG				
==>				
==>				
==>				
==>				
1460	1470	1480	1490	1500
AGGGGAATTT TTCTACTGTA ATACATCACC ACTGTTTAAT AGTACTTGGA				
^==				
^==				
-----				
AGGGGAATTT TTCTACTGTA ATACATCACC ACTGTTTAAT AGTACTTGGA				
==>				
==>				
==>				
==>				

FIG. 2-F

1510	1520	1530	1540	1550
ATGGTAATAA TACTTGGGAAT AATACTACAG GGTCAAATAA CAATATCACA				
=====				
ATGGTAATAA TACTTGGGAAT AATACTACAG GGTCAAATAA CAATATCACA				
				==>
				==>
				==>
				==>
1550	1560	1570	1580	1590
CTTCAATGCA AAATAAAACA AATTATAAAC ATGTGGCAGG AAGTAGGAAA				
=====				
CTTCAATGCA AAATAAAACA AATTATAAAC ATGTGGCAGG AAGTAGGAAA				
				==>
				==>
				==>
				==>
1610	1620	1630	1640	1650
AGCAATATAT GGGGCTGCGA TTGAAGGACA AATTAGATGT TCATCAAAATA				
=====				
AGCAATATAT GGGGCTGCGA TTGAAGGACA AATTAGATGT TCATCAAAATA				
				==>
				==>
				==>
				==>
1660	1670	1680	1690	1700
TTACAGGGCT ACTATTAAACA AGAGATGGTG GTAAGGACAC GGACACGAAAC				
=====				
TTACAGGGCT ACTATTAAACA AGAGATGGTG GTAAGGACAC GGACACGAAAC				
				==>
				==>
				==>
				==>
1710	1720	1730	1740	1750
GACACCGAGA TCTTCAGACC TGGAGGAGGA GATATGAGGG ACAATTGGAG				
=====				
GACACCGAGA TCTTCAGACC TGGAGGAGGA GATATGAGGG ACAATTGGAG				
				==>
				==>
				==>
				==>

FIG. 2-G



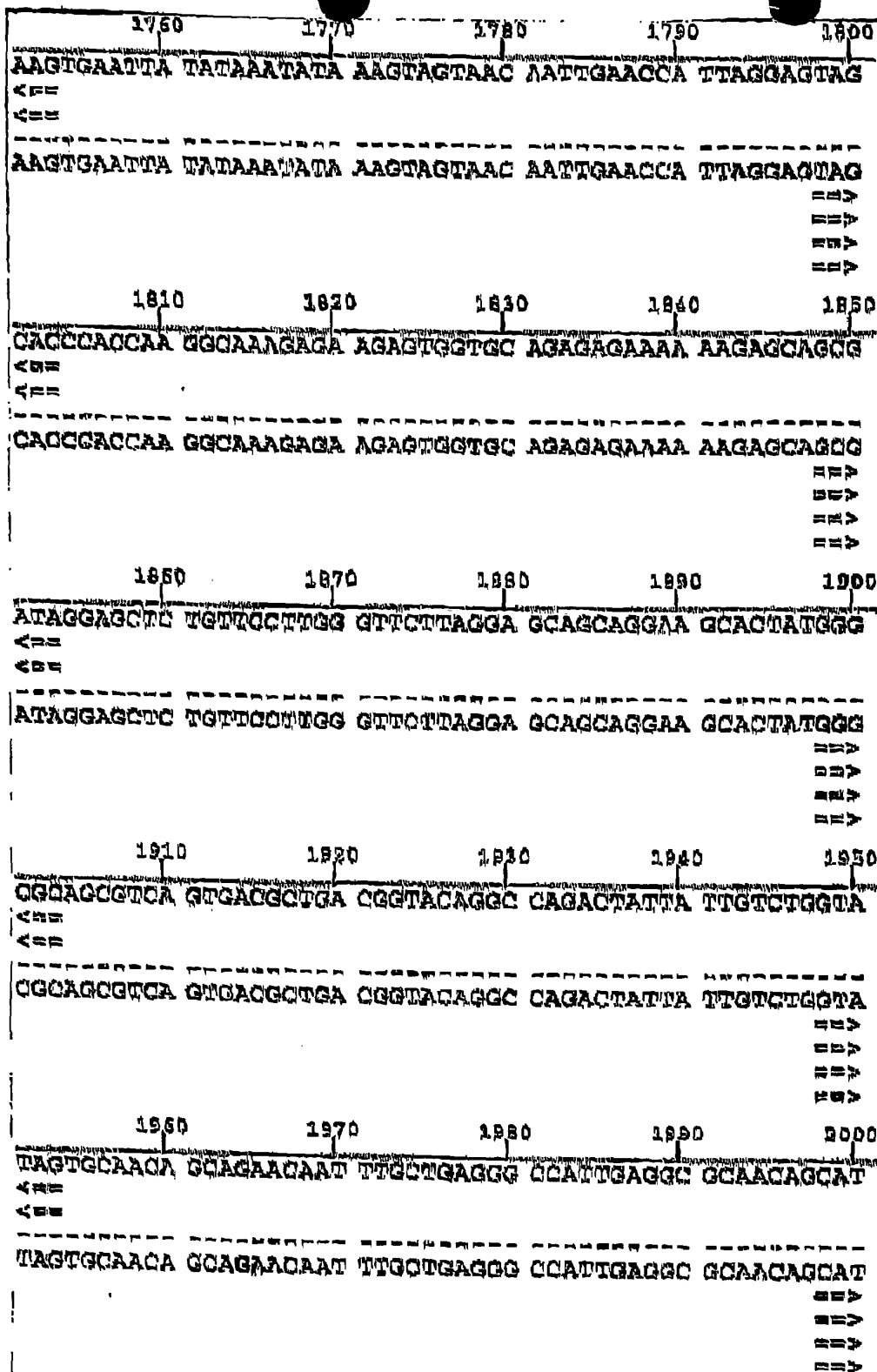


FIG. 2-H

2010	2020	2030	2040	2050
ATGTTGCAAC TCAQAQTCTG GGGCATCAAG CAGCTGCAGG CAAGAATCCT				
=====				
ATGTTGCAAC TCAQAQTCTG GGGCATCAAG CAGCTGCAGG CAAGAATCCT				
=====				
2060	2070	2080	2090	2100
GGCTGTGGAA AGATACTTAA AGGATCAACA GCTCCTGGGG ATTTCGGCTT				
=====				
GGCTGTGGAA AGATACTTAA AGGATCAACA GCTCCTGGGG ATTTCGGCTT				
=====				
2110	2120	2130	2140	2150
GCTCTGGAAA ACTCAATTTGG ACCACTACTG TGCCTTGGAA TGCTAGTTGG				
=====				
GCTCTGGAAA ACTCAATTTGG ACCACTACTG TGCCTTGGAA TGCTAGTTGG				
=====				
2160	2170	2180	2190	2200
AGTAATAAAT CTCTGGATGA TATTTCGAAT AACATGACCT GGATGCACTG				
=====				
AGTAATAAAT CTCTGGATGA TATTTCGAAT AACATGACCT GGATGCACTG				
=====				
2210	2220	2230	2240	2250
GGAAAGAGAA ATTGACAATT ACACAAGCTT AATATACTCA TTACTAGAAA				
=====				
GGAAAGAGAA ATTGACAATT ACACAAGCTT AATATACTCA TTACTAGAAA				
=====				

FIG. 2-I

2260 2270 2280 2290 2300  
 AATCGCAAC CCAACAAGAA ATGAATGAAC AAGAATTATT CGAATTGGAT  
 <==  
 <==

-----  
 AATCGCAAC CCAACAAGAA ATGAATGAAC AAGAATTATT CGAATTGGAT  
 ==V  
 ==V  
 ==V  
 ==V

2310 2320 2330 2340 2350  
 AATCGGCAAC GTTTGTGGAA TTGGTTTGAC ATAACAAATT GGCTGTGGTA  
 <==  
 <==

-----  
 AATCGGCAAC GTTTGTGGAA TTGGTTTGAC ATAACAAATT GGCTGTGGTA  
 ==V  
 ==V  
 ==V  
 ==V

2360 2370 2380 2390 2400  
 TATAAAATA TTCATAATGA TAGTAGGAGC CTGGGTAGGT TTAAGAATAG  
 <==  
 <==

-----  
 TATAAAATA TTCATAATGA TAGTAGGAGC CTGGGTAGGT TTAAGAATAG  
 ==V  
 ==V  
 ==V  
 ==V

2410 2420 2430 2440 2450  
 TTTTTCCTGT ACTTTCTATA GTGAATAGAG TTAGGCAGCG ATACTCACCA  
 <==  
 <==

-----  
 TTTTTCCTGT ACTTTCTATA GTGAATAGAG TTAGGCAGCG ATACTCACCA  
 ==V  
 ==V  
 ==V  
 ==V

2460 2470 2480 2490 2500  
 TTGTCGTTGC AGACCCGCCC CCCAGTTCCG AGGGGACCCG ACAGGCCCGA  
 <==  
 <==

-----  
 TTGTCGTTGC AGACCCGCCC CCCAGTTCCG AGGGGACCCG ACAGGCCCGA  
 ==V  
 ==V  
 ==V  
 ==V

FIG. 2-J

2510	2520	2530	2540	2550
AGGAATCGAA GAAGAAGGTG GAGAGAGAGA CAGAGACACA TCCTGGTCGAT				
=====				
AGGAATCGAA GAAGAAGGTG GAGAGAGAGA CAGAGACACA TCCTGGTCGAT				
=====				
2560	2570	2580	2590	2600
TAGTGCATGG ATTCTTAGCA ATTATCTGGG TCGACCTGGG GAGCCTGTTG				
=====				
TAGTGCATGG ATTCTTAGCA ATTATCTGGG TCGACCTGGG GAGCCTGTTG				
=====				
2610	2620	2630	2640	2650
CTCTTCAGCT ACCACCACTT GAGAGACTTA CTCTTGATTG CAGCGAGGAT				
=====				
CTCTTCAGCT ACCACCACTT GAGAGACTTA CTCTTGATTG CAGCGAGGAT				
=====				
2660	2670	2680	2690	2700
TGTGGAACTT CTGGGACGCA GGGGGTGGGA AGTCTCAAA TATTGGTGGG				
=====				
TGTGGAACTT CTGGGACGCA GGGGGTGGGA AGTCTCAAA TATTGGTGGG				
=====				
2710	2720	2730	2740	2750
ATTCTCCTACA GTATTGGAGT CAGGAACTAA AGAGTAGTGC TGTTAGCTTG				
=====				
ATTCTCCTACA GTATTGGAGT CAGGAACTAA AGAGTAGTGC TGTTAGCTTG				
=====				

FIG. 2-K

六二二  
代西貨

六四  
六三  
六二  
六一  
六〇

大 厦  
 大 厦

五五五  
六六六  
七七八

卷二

9/160 - 1

1943-1944  
2000-2001

九思  
九思  
九思  
九思

卷四

八  
九  
十  
十一

— 52 —

$\frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

3010 3020 3030 3040 3050  
 ACTCCGCGCA AGGACCTGAT TGTCTCAAGA TCCACGGGAT CTGAAAACCT  
 A==  
 A==  
 A==  
 A==

ACTCCGCGCA AGGACCTGAT TGTCTCAAGA TCCACGGGAT CTGAAAACCT  
 ==  
 ==

3060 3070 3080 3090 3100  
 TTCGACGAAA GCGTCTAACC AGTCGCAATC GCAAGAAGCT TGTGACTAT  
 A==  
 A==  
 A==  
 A==

TTCGACGAAA GCGTCTAACC AGTCGCAATC GCAAG  
 A7EPL  
 -----

REV  
 KNU  
 GTGACTAT  
 -----

3110 3120 3130 3140 3150  
 GGCAGGAAGA AGCGGAGACA GCGACGAAGA CCTCCTCAAG GCAGTCAGAC  
 A==  
 A==  
 A==  
 A==  
 A==  
 A==

GGCAGGAAGA AGCGGAGACA GCGACGAAGA CCTCCTCAAG GCAGTCAGAC  
 -----

3160 3170 3180 3190 3200  
 TCATCAAGTT TGTCTATCAA AGCAAGCCCC CACCTAACCC TGAAGGCACA  
 A==  
 A==  
 A==  
 A==  
 A==  
 A==

TCATCAAGTT TGTCTATCAA AGCAAGCCCC CACCTAACCC TGAAGGCACA  
 -----

3210 3220 3230 3240 3250  
 AGGCAAGGTA GCGCGAAGAG GAGGAGGCGG TGGAGGGAAA GGCAAGGCA  
 A==  
 A==  
 A==  
 A==  
 A==  
 A==

AGGCAAGGTA GCGCGAAGAG GAGGAGGCGG TGGAGGGAAA GGCAAGGCA  
 -----



3510	3520	3530	3540	3550
GAGACCTGCT AGCCATGAAT TAAAAATTAA TAAAAAATCA CTTACTTGAA				
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A

3560	3570	3580	3590	3600
ATCAGCAATA AGCTCTCTCT TTGGAAAT				
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A

FIG. 2-0